

Yves Huttel

List of Publications by Year in descending order

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104
papers

2,207
citations

236925

25
h-index

276875

41
g-index

115
all docs

115
docs citations

115
times ranked

3336
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Structure and Lattice Dynamics of CoSb ₃ Skutterudite-Based Thermoelectrics. <i>Chemistry of Materials</i> , 2022, 34, 1213-1224.	6.7	9
2	Composition-Dependent Cytotoxic and Antibacterial Activity of Biopolymer-Capped Ag/Au Bimetallic Nanoparticles against Melanoma and Multidrug-Resistant Pathogens. <i>Nanomaterials</i> , 2022, 12, 779.	4.1	10
3	Green synthesis of starch-capped Cu ₂ O nanocubes and their application in the direct electrochemical detection of glucose. <i>RSC Advances</i> , 2021, 11, 13711-13721.	3.6	10
4	Aloe Vera-Mediated Te Nanostructures: Highly Potent Antibacterial Agents and Moderated Anticancer Effects. <i>Nanomaterials</i> , 2021, 11, 514.	4.1	16
5	Photoinduced Self-Cleaning and Wettability in TiO ₂ Nanocolumn Arrays Obtained by Glancing Angle Deposition with Sputtering. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100071.	5.3	11
6	Photoinduced Charge Transfer and Trapping on Single Gold Metal Nanoparticles on TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50531-50538.	8.0	12
7	Unveiling the infrared complex dielectric function of ilmenite CdTiO ₃ . <i>Journal of Alloys and Compounds</i> , 2020, 813, 152136.	5.5	6
8	Core-Satellite Gold Nanoparticle Complexes Grown by Inert Gas-Phase Condensation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24441-24450.	3.1	8
9	Structural Features, Anisotropic Thermal Expansion, and Thermoelectric Performance in Bulk Black Phosphorus Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 14932-14943.	4.0	12
10	Electrocatalytic Behavior of PtCu Clusters Produced by Nanoparticle Beam Deposition. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23683-23689.	3.1	9
11	Spontaneous Formation of Core@shell Co@Cr Nanoparticles by Gas Phase Synthesis. <i>Applied Nano</i> , 2020, 1, 87-101.	2.0	4
12	High-Performance n-type SnSe Thermoelectric Polycrystal Prepared by Arc-Melting. <i>Cell Reports Physical Science</i> , 2020, 1, 100263.	5.6	23
13	Characterization of a new rechargeable Zn/PVA-KOH/Bi ₂ O ₃ battery: structural changes of the Bi ₂ O ₃ electrode. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4497-4505.	4.9	6
14	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	4.4	333
15	<p>Comparison of cytocompatibility and anticancer properties of traditional and green chemistry-synthesized tellurium nanowires<p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 3155-3176.	6.7	16
16	Citric juice-mediated synthesis of tellurium nanoparticles with antimicrobial and anticancer properties. <i>Green Chemistry</i> , 2019, 21, 1982-1998.	9.0	60
17	Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces. <i>ACS Omega</i> , 2019, 4, 3287-3297.	3.5	9
18	Tuning the size, composition and structure of Au and Co ₅₀ Au ₅₀ nanoparticles by high-power impulse magnetron sputtering in gas-phase synthesis. <i>Nanotechnology</i> , 2019, 30, 065606.	2.6	11

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19	Synergic antibacterial coatings combining titanium nanocolumns and tellurium nanorods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 36-46.	3.3	17
20	Functional Hybrid Nanopaper by Assembling Nanofibers of Cellulose and Sepiolite. <i>Advanced Functional Materials</i> , 2018, 28, 1703048.	14.9	49
21	Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. <i>Scientific Reports</i> , 2018, 8, 7250.	3.3	27
22	Gas-phase synthesis of nanoparticles: present status and perspectives. <i>MRS Communications</i> , 2018, 8, 947-954.	1.8	29
23	Direct synthesis of graphene on silicon oxide by low temperature plasma enhanced chemical vapor deposition. <i>Nanoscale</i> , 2018, 10, 12779-12787.	5.6	26
24	Core@shell, Au@TiO _x nanoparticles by gas phase synthesis. <i>Nanoscale</i> , 2017, 9, 6463-6470.	5.6	29
25	Nanostructured carbon-metal hybrid aerogels from bacterial cellulose. <i>RSC Advances</i> , 2017, 7, 42203-42210.	3.6	9
26	Dispersion and Functionalization of Nanoparticles Synthesized by Gas Aggregation Source: Opening New Routes Toward the Fabrication of Nanoparticles for Biomedicine. <i>Langmuir</i> , 2015, 31, 13813-13820.	3.5	12
27	Optical and magneto-optical properties of Au:Co nanoparticles and Co:Au nanoparticles doped magnetoplasmonic systems. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	13
28	A novel Co@Au structure formed in bimetallic core@shell nanoparticles. <i>Chemical Communications</i> , 2015, 51, 8442-8445.	4.1	55
29	Growth and characterization of FeB nanoparticles for potential application as magnetic resonance imaging contrast agent. <i>Materials Research Express</i> , 2014, 1, 025008.	1.6	9
30	Synthesis and characterization of FeB nanoparticles for potential magnetic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 659-663.	2.2	5
31	The ultimate step towards a tailored engineering of core@shell and core@shell@shell nanoparticles. <i>Nanoscale</i> , 2014, 6, 13483-13486.	5.6	101
32	Multiple Ion Cluster Source for the Generation of Magnetic Nanoparticles: Investigation of the Efficiency as a Function of the Working Parameters for the Case of Cobalt. <i>Dataset Papers in Science</i> , 2014, 2014, 1-9.	1.0	4
33	Matrix and interaction effects on the magnetic properties of Co nanoparticles embedded in gold and vanadium. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 316-329.	2.8	27
34	Thermal Diffusion at Nanoscale: From CoAu Alloy Nanoparticles to Co@Au Core/Shell Structures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3101-3108.	3.1	35
35	Investigation of the Working Parameters of a Single Magnetron of a Multiple Ion Cluster Source: Determination of the Relative Influence of the Parameters on the Size and Density of Nanoparticles. <i>Dataset Papers in Science</i> , 2013, 2013, 1-8.	1.0	5
36	Generation of Nanoparticles with Adjustable Size and Controlled Stoichiometry: Recent Advances. <i>Langmuir</i> , 2012, 28, 11241-11249.	3.5	79

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37	Optical and magneto-optical properties of Co/SiOx thin films. Journal of Nanoparticle Research, 2011, 13, 2653-2659.	1.9	6
38	Morphological, structural, and magnetic properties of Co nanoparticles in a silicon oxide matrix. Journal of Nanoparticle Research, 2011, 13, 5321-5333.	1.9	23
39	Influence of thermal ageing on surface degradation of ethylene-propylene diene elastomer. Journal of Applied Polymer Science, 2011, 119, 242-251.	2.6	20
40	X-ray magnetic circular dichroism study of the blocking process in nanostructured iron-iron oxide core-shell systems. Physical Review B, 2011, 84, .	3.2	37
41	Aspect-ratio and lateral-resolution enhancement in force microscopy by attaching nanoclusters generated by an ion cluster source at the end of a silicon tip. Review of Scientific Instruments, 2011, 82, 023710.	1.3	27
42	Understanding the role of thiol and disulfide self-assembled DNA receptor monolayers for biosensing applications. European Biophysics Journal, 2010, 39, 1433-1444.	2.2	18
43	Photoemission study of fluorination atmospheric pressure plasma processes on EPDM: Influence of the carrier and fluorinating gas. Applied Surface Science, 2010, 257, 832-836.	6.1	3
44	Compositional and structural medium energy ion scattering study of the temperature mediated diffusion determination at the Co/V interface in Co/V/MgO(100). Surface Science, 2010, 604, 2177-2183.	1.9	1
45	Nanopatterning of carbonaceous structures by field-induced carbon dioxide splitting with a force microscope. Applied Physics Letters, 2010, 96, .	3.3	43
46	Study of the valence state and electronic structure in Sr ₂ FeMO ₆ (M = W, Mo, Re and Sb) double perovskites. Physical Chemistry Chemical Physics, 2010, 12, 13616.	2.8	41
47	Influence of the linker type on the Au-S binding properties of thiol and disulfide-modified DNA self-assembly on polycrystalline gold. Physical Chemistry Chemical Physics, 2010, 12, 3301.	2.8	11
48	Magnetic order of Cr thin films in Nb/Cr/Fe-nanoisland hybrid: A comparative study between magnetic and superconducting properties. Journal of Applied Physics, 2009, 105, .	2.5	4
49	Growth and magnetic characterization of Co nanoparticles obtained by femtosecond pulsed laser deposition. Physical Review B, 2009, 79, .	3.2	14
50	Induced ferromagnetism in Mn ₃ N ₂ phase embedded in Mn/Si ₃ N ₄ multilayers. Journal of Applied Physics, 2009, 106, .	2.5	7
51	Application of diamond-like carbon coatings to elastomers frictional surfaces. Tribology International, 2009, 42, 584-590.	5.9	24
52	Layer-resolved elemental-composition determination at the Co/V interface in Co/V/MgO(100). Surface Science, 2008, 602, L139-L144.	1.9	2
53	Interface alloying effects in the magnetic properties of Fe nanoislands capped with different materials. Physical Review B, 2008, 78, .	3.2	18
54	X-ray absorption and magnetic circular dichroism characterization of a novel ferromagnetic Mn _{Nx} phase in Mn/Si ₃ N ₄ multilayers. Applied Physics Letters, 2008, 93, .	3.3	12

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55	Morphology and capping effects in the magnetic and magneto-optical properties of nanoparticulate Co films. <i>Physical Review B</i> , 2008, 77, .	3.2	10
56	Interface effects, magnetic, and magneto-optical properties of Al ³⁺ -Co ²⁺ -V ⁵⁺ -MgO(100) structures. <i>Physical Review B</i> , 2008, 77, .	3.2	6
57	Role of volume versus defects in the electrical resistivity of lattice-distorted V(001) ultrathin films. <i>Physical Review B</i> , 2007, 76, .	3.2	5
58	Patterning Polymeric Structures with 2 nm Resolution at 3 nm Half Pitch in Ambient Conditions. <i>Nano Letters</i> , 2007, 7, 1846-1850.	9.1	80
59	Core-shell nanocrystalline structures in oxidized iron thin films prepared by sputtering at very low temperatures. <i>Journal of Applied Physics</i> , 2007, 101, 113914.	2.5	13
60	Surface analysis of NBR and HNBR elastomers modified with different plasma treatments. <i>Vacuum</i> , 2007, 81, 1489-1492.	3.5	21
61	Magnetic and topographic correlations in Co nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e787-e790.	2.3	1
62	Temperature and thickness dependence at the onset of perpendicular magnetic anisotropy in FePd thin films sputtered on MgO(001). <i>Physical Review B</i> , 2006, 73, .	3.2	34
63	Perpendicular magnetic anisotropy in chemically disordered FePd ^{1-x} FeV(100) alloy thin films. <i>Journal of Applied Physics</i> , 2006, 99, 073903.	2.5	3
64	Structure of MgO/V/MgO(001) thin films studied by the combination of X-ray photoemission and ion beam analysis techniques. <i>Surface Science</i> , 2006, 600, 497-506.	1.9	8
65	Structural and magnetic properties of V ⁵⁺ -Co ²⁺ and Co ²⁺ -V ⁵⁺ bilayers grown on MgO(100): A comparative study. <i>Journal of Applied Physics</i> , 2006, 100, 053917.	2.5	12
66	Magnetism and magneto-optics of Co nanoparticles embedded in dielectric and metallic matrices. , 2005, , .		1
67	Epitaxy and lattice distortion of V in MgO/V/MgO(001) heterostructures. <i>Journal of Crystal Growth</i> , 2005, 273, 474-480.	1.5	13
68	Capping layer effects in the structure and composition of Co nanoparticle ultrathin films. <i>Applied Physics Letters</i> , 2005, 86, 032510.	3.3	19
69	Effect of a capping layer on the magnetic properties of island nanostructured Fe(110). <i>Journal of Applied Physics</i> , 2005, 97, 104302.	2.5	10
70	Size effects in the magneto-optical response of Co nanoparticles. <i>Physical Review B</i> , 2005, 72, .	3.2	33
71	Capping-layer-induced magnetic coupling in a two-dimensional nanostructured system. <i>Applied Physics Letters</i> , 2004, 84, 2139-2141.	3.3	13
72	Surface localized nitrogen incorporation in epitaxial FePd films and its effect in the Magneto-Optical properties. <i>Surface Science</i> , 2004, 571, 63-73.	1.9	12

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73	Magnetic coupling between Fe nanoslands induced by capping-layer magnetic polarization. Physical Review B, 2004, 69, .	3.2	23
74	Cobalt nanoparticles deposited and embedded in AlN: Magnetic, magneto-optical, and morphological properties. Journal of Applied Physics, 2004, 96, 1666-1673.	2.5	23
75	LEED and EXAFS study of the crystallographic structure of Cu/c(2 \times 2)-MnCu(100) slab. Surface Science, 2003, 544, 261-268.	1.9	2
76	Structural characterization of Fe(110) islands grown on $\hat{1}\pm$ -Al ₂ O ₃ (0001). Thin Solid Films, 2003, 434, 228-238.	1.8	18
77	Linear and quadratic magneto-optical Kerr effects in continuous and granular ultrathin monocrystalline Fe films. Physical Review B, 2003, 68, .	3.2	20
78	Induced V and reduced Co magnetic moments at the V/Co interface. Physical Review B, 2003, 68, .	3.2	40
79	Magnetic V embedded in copper evidenced by x-ray magnetic circular dichroism. Physical Review B, 2003, 67, .	3.2	12
80	Electronic configuration of the c(2 \times 2)MnCu two-dimensional alloy in layered structures supported on Cu(100). Journal of Physics Condensed Matter, 2003, 15, 1183-1200.	1.8	2
81	Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe. Physical Review B, 2002, 65, .	3.2	38
82	Interface magnetic properties of epitaxial Fe-InAs heterostructures. IEEE Transactions on Magnetics, 2002, 38, 2652-2654.	2.1	20
83	Epitaxial growth of AlN on sapphire (0001) by sputtering: a structural, morphological and optical study. Journal of Crystal Growth, 2002, 242, 116-123.	1.5	34
84	Angle-scanned photoemission spectrum from Cu(1 0 0): theory vs experiment. Surface Science, 2001, 482-485, 718-722.	1.9	3
85	New electronic states close to the Fermi edge in the c(2 \times 2) MnCu(1 0 0) surface alloy. Surface Science, 2001, 482-485, 540-545.	1.9	7
86	Experimental evidence of long-range magnetic order in the c(2 \times 2)-MnCu(100) surface alloy. Physical Review B, 2001, 64, .	3.2	26
87	A study of the response of Y ₃ Al ₅ O ₁₂ :Ce phosphor powder screens in the vacuum ultraviolet and soft X-ray regions using synchrotron radiation. Journal of Synchrotron Radiation, 2000, 7, 215-220.	2.4	9
88	Dynamical fluctuation and surface phase transition at the Sn/Ge(111) $\hat{3}\times\hat{3}$ interface. Applied Surface Science, 2000, 162-163, 48-55.	6.1	6
89	Electronic and structural properties of Mn/Cu superstructures. Physical Review B, 2000, 61, 4948-4957.	3.2	20
90	Growth and magnetic properties of copper on Cu(100)c(2 \times 2)-Mn surface alloy. Surface Science, 1999, 433-435, 434-439.	1.9	10

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91	Electronic instabilities of the two-dimensional Sn/Ge(111) $\hat{1}\pm$ -phase. Surface Science, 1999, 433-435, 327-331.	1.9	16
92	Surface charge density waves at Sn/Ge(111)?. Applied Surface Science, 1998, 123-124, 440-444.	6.1	40
93	Auger electron diffraction study of V/Fe(100) interface formation. Surface Science, 1998, 402-404, 609-613.	1.9	8
94	Visualization of the Active Zone of an Irregular Electrode by Optical Absorption. Journal of the Electrochemical Society, 1997, 144, 1713-1717.	2.9	10
95	Antimony on metal and semiconductor surfaces: interface formation and passivation. Surface Science, 1996, 352-354, 845-849.	1.9	4
96	INITIAL STEPS OF ALKALI-METAL-PROMOTED OXIDATION OF THE Al(111) SURFACE. Surface Review and Letters, 1995, 02, 549-556.	1.1	5
97	Structural properties of the Na/Si(111)2 \hat{A} -1 surface studied by photoemission extended x-ray-absorption fine structures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 2694.	1.6	6
98	Sb-induced interatomic bond distance stabilization on InP(100) surface. Applied Physics Letters, 1994, 64, 863-865.	3.3	5
99	Pulsed Electrodeposition of Tree-Like Copper Aggregates. Materials Research Society Symposia Proceedings, 1994, 367, 177.	0.1	1
100	O 1s investigation of SiO ₂ /Si interface formation using an alkali metal promoter. Applied Surface Science, 1993, 65-66, 840-846.	6.1	25
101	Promoted oxidation of aluminum thin films using an alkali metal catalyst. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 2186-2192.	2.1	14
102	Low-energy Ar ⁺ ion bombardment-induced modification of surface atomic bond lengths on InP(100) wafer. Applied Physics Letters, 1993, 63, 1957-1959.	3.3	18
103	Sb-induced surface stabilization of InP(100) wafer beyond 500 \hat{A} C. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 1603.	1.6	11
104	Al ₂ O _{3+x} /Al interface formation by promoted oxidation using an alkali metal and removal of the catalyst. Applied Physics Letters, 1993, 62, 2437-2439.	3.3	8